

Title (en)  
COATING RESIN COMPOSITION

Title (de)  
BESCHICHTUNGSHARZMASSE

Title (fr)  
COMPOSITION DE RESINE DE REVETEMENT

Publication  
**EP 0822240 B1 20020925 (EN)**

Application  
**EP 96909379 A 19960416**

Priority  
• JP 9601036 W 19960416  
• JP 9729195 A 19950421

Abstract (en)  
[origin: EP0822240A1] A coating resin composition is able to form a coating film having not only high hardness and weatherability but also high toughness, and can be cured both at room temperature and by heating curing, and further which is good at storage stability. The coating resin composition consists essentially of a silica-dispersed oligomer solution of organosilane prepared by partially hydrolyzing a hydrolyzable organosilane represented by a formula  $R<1>nSiX4-n$ , in colloidal silica dispersed in an organic solvent, water or a mixture thereof, and an acrylic resin which is a copolymer of acrylate or methacrylate represented by a formula,  $CH2=CR<2><COOR<3>$ , and a curing catalyst. This composition is used by separating the components into two solutions and then mixing thereof as required. A resin-coated article comprises a cured resin layer of the coating resin composition on the surface of a substrate. <IMAGE>

IPC 1-7  
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IPC 8 full level  
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CPC (source: EP KR US)  
**C03C 17/009** (2013.01 - EP US); **C04B 41/009** (2013.01 - EP US); **C04B 41/495** (2013.01 - EP US); **C04B 41/5035** (2013.01 - EP US); **C04B 41/52** (2013.01 - EP US); **C04B 41/64** (2013.01 - EP US); **C04B 41/65** (2013.01 - EP US); **C04B 41/70** (2013.01 - EP US); **C09D 133/06** (2013.01 - EP KR US); **C09D 133/14** (2013.01 - KR); **C09D 183/04** (2013.01 - EP US); **C04B 2111/2038** (2013.01 - EP US); **C08L 83/04** (2013.01 - EP US); **C08L 2205/02** (2013.01 - EP US)

C-Set (source: EP US)  
1. **C04B 41/52 + C04B 41/48 + C04B 41/495**  
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3. **C04B 41/5035 + C04B 40/065 + C04B 41/4554 + C04B 41/483 + C04B 41/495**  
4. **C04B 41/009 + C04B 28/02**  
5. **C09D 133/06 + C08L 2666/14 + C08L 2666/28 + C08L 2666/54**  
6. **C09D 133/06 + C08L 2666/14**  
7. **C09D 183/04 + C08L 2666/04 + C08L 2666/54**

Cited by  
EP0955275A1; EP1992647A1; US11597188B2; CN112646186A; EP4039764A4; US6333371B1; US7445848B2; US7582351B2; US11292926B2; US11623995B2; US6743854B2; US7026400B2; WO2006046003A1; US6989419B2; US8178168B2; EP4136974A1; WO2023021221A1

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